

Claims:

1. A shear connector having a predetermined length in a T-shaped steel plate, comprising:

a flange and a web having a plurality of through holes.

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2. The connector of claim 1, wherein said web has a plurality of valley portions and ridges in wave shapes.

3. The connector of claim 1, wherein a plurality of protrusions and/or
10 grooves are formed at the flange and the web.

4. The connector of claim 3, wherein said web has a plurality of valley portions and ridges in wave shapes.

15 5. A shear connector having a predetermined length in a T-shaped steel plate, comprising:

a flange formed of a plurality of flange pieces wherein said flange pieces are cut-out in biased shapes; and

a web having a plurality of through holes.

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6. The connector of claim 5, wherein said web has a plurality of valley portions and ridges in wave shapes.

7. The connector of claim 5, wherein a plurality of protrusions and/or
5 grooves are formed at the flange and the web, respectively.

8. The connector of claim 7, wherein said web has a plurality of valley portions and ridges in wave shapes.

10 9. A shear connector having a predetermined length in a Z-shaped steel plate, comprising:

an upper flange and a web having a plurality of through holes.

10. The connector of claim 9, wherein said web has a plurality of valley
15 portions and ridges in wave shapes.

11. The connector of claim 9, wherein a plurality of protrusions and/or grooves are formed at the flange and the web, respectively.

20 12. The connector of claim 11, wherein said web has a plurality of valley

portions and ridges in wave shapes.